

Material Testing Machines - Single Column Bench Mounted

Lloyd Instruments offers a range of affordable single column test machines for a wide variety to test applications up to 5 kN (1124 lbf). All machines are capable of tensile, compression, flexural, peel, shear, friction testing and more. Flexible, easy to use and maintain, they offer high accuracy position measurement, rapid data acquisition, multi-lingual and multi-unit display options as well as full PC integration with NEXYGENPlus material test and data analysis software.

Two different measuring range available for LRX series:

- **LRX** (Maximum 2.5kN)
- **LRX Plus** (Maximum 5kN)
- **LF Plus** (Maximum 1kN)



LRX



LRX Plus



LF Plus

| Model | LRX | LRX Plus | LF Plus |
|-------------------------|---|--------------------------|---|
| Standard force range | 2.5kN 600lbf 250kgf | 5kN 1124lbf 500kgf | 1kN 225lbf 100kgf |
| Force accuracy (system) | Meet the following international standards: BS EN ISO 7500:1999, Class 0.5 or Class 1, ASTM E4, DIN51221. Load cell accuracy: <0.5% | | |
| Load cell (Optional) | 5N, 10N, 20N, 50N, 100N, 250N, 500N, 1000N, 2500N, 5000N | | |
| Load cell accuracy | <0.5% | | |
| Travel Range | 750 mm (29.53 in) | 735mm (28.94 in) | LF-Plus: 500mm (19.69in) LF-Plus extended: 750mm(29.53 in) |
| Extension Resolution | <1µm | <0.1µm | <1.3µm |
| Data Sampling Rate | 40Hz | 8kHz | 8kHz |
| Crosshead speed range | 0.01- 1016mm/min 0.0004-40.16in/min | | 0.05-1270mm/min |
| Speed accuracy | <0.2% | | |
| Cycling | Cycling test between limits of force or travel range | | |
| Software (Optional) | NEXYGEN PLUS Material Test and Data Analysis Software | | |
| Supply voltage | 220/240V or 110/120V AC, 50/60Hz | | |
| Temperature | Operating temperature: 5°C-35°C Storage temperature: -20°C-55°C | | |
| Weight | 54kg | 50kg | 46kg |



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Material Testing Machines - Twin Column Bench Mounted

For applications in the mid force range, Lloyd Instruments offers a wide range of testing machines and accessories for forces up to 50 kN (11241 lbf). Ideal for routine quality control testing or complex multi-stage tests, all machines can perform tensile, compression, flexural, peel, shear, friction tests and many more. Flexible, simple to use and maintain, they provide high accuracy load measurement and are capable of a rapid 8 kHz data acquisition rate. The stand alone system can store up to 600 test results from 10 programmable test set-ups or, with PC integration with Lloyd Instruments powerful NEXYGENPlus material test and data analysis software, can perform advanced data analysis.



LR5K Plus



LR30K Plus



EZ20

| Model | LR5K Plus | LR10K Plus | LR30K Plus | EZ20 |
|-------------------------|--|---------------------------------------|---------------------------------------|---|
| Range | 5kN (1124lbf) | 10kN (2248lbf) | 30kN(6744lbf) | 20kN(4496lbf) |
| Load cell (Optional) | 5N, 10N, 20N, 50N, 100N, 250N, 500N, 1kN, 2.5kN, 5kN, 10kN, 20kN, 30kN | | | |
| Crosshead speed | 0.01-1020mm/min /0.0004-40.16in/min | 0.01-510mm/min /0.0004-20.08in/min | 0.01-510mm/min /0.0004-20.08in/min | 10kN-20kN: 0.1-500mm/min 0N-10kN: 0.1-1020mm/min |
| Speed accuracy | <0.2% | | | |
| Travel Range | 975mm(38.39in) | 950mm(37.40in) | 870mm(34.25) | |
| Load cell accuracy | <0.5% | | | |
| Extension resolution | <0.1µm | | | |
| Data Sampling Rate | 8kHz | | | |
| Extensometer (Optional) | Non-contacting laser extensometer, contacting extensometer | | | |
| Software (Optional) | NEXYGEN PLUS Material Test and Data Analysis Software | | | |
| Weight | 105kg | | 125kg | 150kg |
| Supply voltage | 220/240V or 110/120V AC, 50/60Hz | | | |



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